

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
16 December 2004 (16.12.2004)

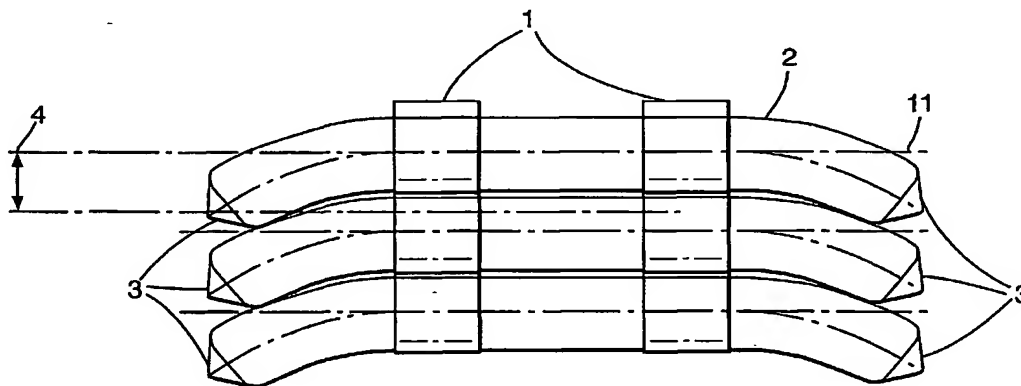
PCT

(10) International Publication Number  
**WO 2004/108047 A1**

- (51) International Patent Classification<sup>7</sup>: **A61G 7/057**, (74) Agent: **THAKER, Shallini**; Group IP Department, Huntleigh Technology PLC, 310-312 Dallow Road, Luton, Bedfordshire LU1 1TD (GB).  
A47C 27/10
- (21) International Application Number: **PCT/GB2004/002362** (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: **4 June 2004 (04.06.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data: **0313046.5** **6 June 2003 (06.06.2003)** **GB** (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (for all designated States except US): **HUNTLEIGH TECHNOLOGY PLC** [GB/GB]; 310-312 Dallow Road, Luton, Bedfordshire LU1 1TD (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **CHAPMAN, Paul, William** [GB/GB]; 25 Fennel Drive, Biggleswade, Bedfordshire SG18 8WD (GB).
- Published:  
— with international search report

[Continued on next page]

(54) Title: **INFLATABLE PAD**



(57) Abstract: A pad (10) of interleaving linear cells (2) has loop straps (1) to hold the central section of the cells (2) linearly in parallel with the cell axis (11), whilst the opposite ends (3) of each cell (2) are secured a pre-determined distance (4) off-set from the cell axis (11). The distance (4) can vary along the length of the pad. By fixing of the ends (3) of the cells (2) at a distance (4) away from the cell axis, each end (3) of the cell (2) is pulled away from the centre axis of the cell, the loop straps (1) and the cell (2) become tensioned, preventing the central cell section from moving or rotating. The resulting cell has been seen to dramatically reduce the movement of a user along the pad with improved user comfort and enhanced pressure relief.

WO 2004/108047 A1



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*